

**ABSTRACT**

**ONE-PIECE MANIFOLD FOR A REVERSE OSMOSIS SYSTEM**

A one-piece manifold for a reverse osmosis system

5 includes a filter configured to receive water from a water  
port and a membrane configured to receive filtered water via a  
first conduit. The membrane is also configured to send  
permeate water to a reverse osmosis tank. The manifold also  
includes a flow restrictor configured to receive concentrate

10 water from the membrane via a second conduit and to pass the  
concentrate water to a drain port.